

anti-human CD52

Monoclonal Antibody HI186 to CD52 (Human)

Cat-No: **21270521**

100 µg in 100 µl

Clone: HI186

Specificity: The antibody HI186 reacts with CD52 (CAMPATH-1), a 21-28 kDa glycoprotein containing a large N-linked carbohydrate moiety; mature CD52 molecule is actually much smaller (approx. 8-9 kDa). CD52 is expressed at high levels on lymphocytes, monocytes/macrophages and in male reproductive tract.

HLDA VI; WS Code BP 523

HLDA VI; WS Code T 6T-057

Isotype subclass: Mouse IgG2b

Form: Purified from ascites by protein G-affinity chromatography.

Purity: > 95% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 0.09 % sodium azide (pH 7.2).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application: Flow Cytometry

References:

- *Treumann A and others: 1995 Mar 17;270(11):6088-99.
- *Rowan WC and others: 1995 Jan;7(1):69-77.
- *Schröter S and others: 1999 Oct 15;274(42):29862-73.
- *Domagała A, Kurpisz M: 2001 Mar-Apr;7(2):325-31.
- *Koyama K and others: 2007;63:103-10.

Background: **CD52** (CAMPATH-1, HE5) is a highly glycosylated GPI-anchored 21-28 kDa glycopeptide which is present at high levels on lymphocytes, macrophages, epithelial cells of male reproductive tract and mature sperm. Its 12-amino acid backbone carries a complex N-linked carbohydrate moiety, which differs between sperm and leukocyte CD52, as well as the GPI anchor does. CD52 can be acquired by sperm cells from seminal plasma, where it is released by epithelial cells. Although CD52 is not an essential T-cell costimulator, its triggering results in activation of normal human T cells. CD52 is a very good target for antibody/complement-mediated cell lysis.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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